Don Bosco Technical College	Topic Outline	Campus: Mandaluyong Sector: TVET Page Number:

Course/Program/Subject	Duration (in hours per week)	Training Modality
Commercial Wiring	12 Hours	Face to Face
Target Qualification	**Duration (in weeks)**	**Developed By**
EIM NC II	16 Weeks	Robin Louis F. Perdiguerra

Course Objectives:

By the end of this course, students will be able to:

1. Interpret commercial wiring plans and electrical diagrams to plan installation sequences.
2. Install wiring systems using appropriate conduit types and fittings, ensuring compliance with safety and electrical code standards.
3. Perform proper wire pulling, routing, and termination techniques for lighting and power distribution systems.
4. Install electrical devices such as switches, outlets, circuit breakers, lighting fixtures, and panel boards with accuracy and security.
5. Test and commission electrical installations, including continuity testing, insulation resistance testing, and load verification.
6. Apply the Philippine Electrical Code (PEC) standards during all phases of installation and inspection.
7. Troubleshoot and repair faults in commercial electrical systems using systematic procedures and diagnostic tools.

Week/Day	Topic	Learning Activities	Assessment Methods
1	Safety & Tools for Commercial Wiring	Tool Use, Inspection, Safety Drills	Participation
2	Conduit Types and Sizes	Conduit Types, Cutting, Threading, Bending	Laboratory Output
3	Boxes and Fittings	Install Boxes with proper fasteners	Laboratory Output
4	Wiring Plans and Layout	Interpret commercial plans, Mark layouts	Activity Sheet
5	Conduit Installation and Wire Pulling Techniques	Practice mounting conduits and running wires	Laboratory Output and Written Quiz
6	Electrical Protective Devices Installation	Types, Uses and Installation of Electrical Protective Devices	Laboratory Output
7	Switches/Outlets Installations	Types and Mounting of Switches & Outlets	Laboratory Output
8	Lighting Systems	Install Fluorescent and LED fixtures	Laboratory Output
9	Load Distribution & Balancing	Balance circuits across phases	Activity Sheet and Written Quiz
10	Power Distribution Panels	Panel layout, mounting and wire termination	Laboratory Output and Written Quiz
11	Circuit Testing Procedures and Troubleshooting Fault	Use multi-tester, megger and continuity testing	Laboratory Output
12	PEC Compliance and Labelling	Apply PEC rules and labels	Activity Sheet
13	Fire Detection Alarm System (FDAS)	Connect and install FDAS in 1 and 2 zones	Laboratory Output
14	Closed Circuit Television (CCTV)	Connect and install CCTV System	Laboratory Output
15	Full Installation Practice	Install mockup complete commercial system	Completion Report and Written Quiz
16	Final Testing and Assessment	Institutional Assessment	Institutional Assessment